

### **IN THE CLAIMS**

Please replace all prior versions, and listings, of claims in the application with the following list of claims. Additions are indicated by underlining and deletions are indicated by strikeouts and/or double bracketing.

1-150. (Cancelled)

151. (Currently amended) ~~The A~~ method of ~~claim 149~~, comprising:

preparing a randomly primed PCR-derived reduced complexity genome (RCG) using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 1% of genomic material present in a whole genome,

contacting single nucleotide polymorphisms – allele specific oligonucleotides (SNP-ASOs) immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a genotype.

152. (Currently amended) ~~The A~~ method of ~~claim 149~~, comprising:

preparing a randomly primed PCR-derived reduced complexity genome (RCG) using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 0.05% of genomic material present in a whole genome,

contacting single nucleotide polymorphisms – allele specific oligonucleotides (SNP-ASOs) immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a genotype.

153. (Currently amended) The method of any one of claims ~~149-150~~ 151-152, wherein the at least one PCR primer is a primer for degenerate oligonucleotide priming-PCR (DOP-PCR).
154. (Currently amended) The method of any one of claims ~~149-150~~ 151-152, wherein the at least one PCR primer is a primer for adapter-PCR.
155. (Currently amended) The method of claim ~~149~~ 151, wherein the SNP-ASOs are composed of between 10 and 50 nucleotide residues.
156. (Currently amended) The method of claim ~~149~~ 151, wherein the SNP-ASOs are composed of between 10 and 25 nucleotide residues.
- 157-166. (Cancelled)